

Montana Department of Natural Resources and Conservation
Water Resources Division
Water Rights Bureau

ENVIRONMENTAL ASSESSMENT
For Routine Actions with Limited Environmental Impact

Part I. Proposed Action Description

1. Applicant/Contact name and address: Mark and Irene Bushnell
Represented by: W. John Tietz
Browning, Kaleczyc, Berry & Hoven P.C.
PO Box 1697
Helena, MT 59624
2. Type of action: Application to Change a Water Right 41I 30064204
(Statement of Claim No. 41I 30063618)
3. Water source name: Tenmile Creek
4. Location affected by project: The project proposes to retire 27.57 acres of historic irrigation in the SE of Section 5, Township (T) 10 North (N), Range (R) 3 West (W), Lewis and Clark County, in order to mitigate surface water depletions associated with pumping of the Glacier Point Subdivision wells in NESW of Section 5, T10N, R3W.
5. Narrative summary of the proposed project, purpose, action to be taken, and benefits: The applicant seeks to change the place of use, point of diversion and purpose of a portion of their Statement of Claim No. 41I 30063618. The proposed change seeks to mitigate surface water depletions caused by the pumping of the Glacier Point subdivision wells under pending water use permit no. 41I 30064203. The consumptive volume associated with 27.57 acres of historic irrigation would change to the purpose of mitigation in the lowest most reach of Tenmile Creek. A flow rate of 34 gallons per minute (GPM) up to 15 acre-feet (AF) would be left in Tenmile Creek to mitigate the estimated depletions to surface water caused by pumping of the Glacier Point public water supply wells. The proposed mitigation place of use is described in the Table below:

Stream Reach	Quarter Section	Section	TWP (N)	RNG (W)
Tenmile Creek, from POD to confluence with Prickly Pear Creek	NW	8	10	3
	SW, SE, NE	5	10	3
	NW	4	10	3
	SW, SE, NE	33	11	3
Prickly Pear Creek, from confluence with Tenmile Creek to mouth at Lake Helena	NW	34	11	3
	SW, NW, NE	27	11	3
	NW	26	11	3
	SW	23	11	3

The DNRC shall issue a change authorization if an applicant proves the criteria in 85-2-402, MCA are met.

6. Agencies consulted during preparation of the Environmental Assessment:
(include agencies with overlapping jurisdiction)
- Montana Department of Natural Resources (DNRC), Water Management Bureau- Attila Fohnagy and Russell Levens, Groundwater Hydrologists
 - Montana Natural Heritage Program (MTNHP)
 - Montana Department of Fish, Wildlife & Parks (DFWP)
 - USDA Web Soil Survey

Part II. Environmental Review

1. Environmental Impact Checklist:

PHYSICAL ENVIRONMENT

WATER QUANTITY, QUALITY AND DISTRIBUTION

Water quantity - Assess whether the source of supply is identified as a chronically or periodically dewatered stream by DFWP. Assess whether the proposed use will worsen the already dewatered condition.

Determination: No adverse impact. Although Tenmile Creek and Prickly Pear Creek are identified by the Department of Fish, Wildlife and Parks as chronically dewatered streams, the proposed project will not be diverting water directly from these streams. The proposed change is to leave water instream to mitigate potential surface water depletions caused by the pumping of the Glacier Point public water supply wells.

Water quality - Assess whether the stream is listed as water quality impaired or threatened by DEQ, and whether the proposed project will affect water quality.

Determination: No significant adverse impact. The Montana Department of Environmental Quality 303(d) list for 2012 identifies several causes for water quality impairments for Tenmile Creek and Prickly Pear Creek. However, the proposed project is to leave 34 GPM up to 15 AF instream for mitigation and will not likely contribute to the existing impairments.

Groundwater - Assess if the proposed project impacts ground water quality or supply. If this is a groundwater appropriation, assess if it could impact adjacent surface water flows.

Determination: No significant adverse impact. The proposed project is to retire 27.57 acres of historic irrigation and leave water instream to mitigate possible surface water depletions caused by pumping the Glacier Point public water supply wells. Any potential changes to the historic return flow regime should be negated by the future use of contract water from the Missouri River on the acreage retired for mitigation purposes.

DIVERSION WORKS - *Assess whether the means of diversion, construction and operation of the appropriation works of the proposed project will impact any of the following: channel impacts, flow modifications, barriers, riparian areas, dams, well construction.*

Determination: No impact. The proposed use is to leave water instream for mitigation purposes and no diversion will take place.

UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES

Endangered and threatened species - *Assess whether the proposed project will impact any threatened or endangered fish, wildlife, plants or aquatic species or any "species of special concern," or create a barrier to the migration or movement of fish or wildlife. For groundwater, assess whether the proposed project, including impacts on adjacent surface flows, would impact any threatened or endangered species or "species of special concern."*

Determination: No adverse impact. The Montana National Heritage Program identified 16 animal species of concern and 2 plant species of concern in the proposed project area. The animal species of concern are: clark's grebe (*Aechmophorus clarkia*), great blue heron (*Ardea Herodias*), bald eagle (*Haliaeetus leucocephalus*), black-necked stilt (*Himantopus mexicanus*), long-billed curlew (*Numenius americanus*), forster's tern (*Sterna forsteri*), lewis's woodpecker (*Melanerpes lewis*), pinyon jay (*Gymnorhinus cyanocephalus*), clark's nutcracker (*Nucifraga columbiana*), veery (*Catharus fuscescens*), brewer's sparrow (*Spizella breweri*), bobolink (*Dolichonyx oryzivorus*), cassin's finch (*Haemorhous cassinii*), westslope cutthroat trout (*Oncorhynchus clarkii lewisi*), hoary bat (*Lasiurus cinereus*) and black-tailed prairie dog (*Cynomys ludovicianus*). The two plant species of concern are wedge-leaf saltbush (*Atriplex truncate*) and small yellow lady's-slipper (*Cypripedium parviflorum*). Since the proposed change is to leave water instream for mitigation, the species of concern are not likely to be impacted.

Wetlands - *Consult and assess whether the apparent wetland is a functional wetland (according to COE definitions), and whether the wetland resource would be impacted.*

Determination: The proposed project does not involve wetlands.

Ponds - *For ponds, consult and assess whether existing wildlife, waterfowl, or fisheries resources would be impacted.*

Determination: The proposed project does not involve ponds.

GEOLOGY/SOIL QUALITY, STABILITY AND MOISTURE - *Assess whether there will be degradation of soil quality, alteration of soil stability, or moisture content. Assess whether the soils are heavy in salts that could cause saline seep.*

Determination: No significant adverse impact. The 27.57 acres proposed to be retired are proposed to be irrigated with contract water, so there should be no change in soil stability or moisture content.

VEGETATION COVER, QUANTITY AND QUALITY/NOXIOUS WEEDS - *Assess impacts to existing vegetative cover. Assess whether the proposed project would result in the establishment or spread of noxious weeds.*

Determination: No significant impact. The 27.57 acres proposed to be retired are going to be irrigated with contract water, so there should be no change in the existing vegetation cover.

AIR QUALITY - *Assess whether there will be a deterioration of air quality or adverse effects on vegetation due to increased air pollutants.*

Determination: No significant impact. There will be no change in air quality with proposed project.

HISTORICAL AND ARCHEOLOGICAL SITES - *Assess whether there will be degradation of unique archeological or historical sites in the vicinity of the proposed project if it is on State or Federal Lands. If it is not on State or Federal Lands simply state NA-project not located on State or Federal Lands.*

Determination: N/A, the project is not located on State or Federal land.

DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AND ENERGY - *Assess any other impacts on environmental resources of land, water and energy not already addressed.*

Determination: No additional impacts on environmental resources of land, water and energy were identified.

HUMAN ENVIRONMENT

LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS - *Assess whether the proposed project is inconsistent with any locally adopted environmental plans and goals.*

Determination: No significant adverse impact.

ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES - *Assess whether the proposed project will impact access to or the quality of recreational and wilderness activities.*

Determination: No significant adverse impact.

HUMAN HEALTH - *Assess whether the proposed project impacts on human health.*

Determination: No significant adverse impact.

PRIVATE PROPERTY - *Assess whether there are any government regulatory impacts on private property rights.*

Yes___ No X If yes, analyze any alternatives considered that could reduce, minimize, or eliminate the regulation of private property rights.

Determination: The project does not impact government regulations on private property.

OTHER HUMAN ENVIRONMENTAL ISSUES - *For routine actions of limited environmental impact, the following may be addressed in a checklist fashion.*

Impacts on:

- (a) Cultural uniqueness and diversity? No impacts identified.
- (b) Local and state tax base and tax revenues? No impacts identified.
- (c) Existing land uses? The retired acreage will be irrigated with contract water so there will be no change in existing land uses.
- (d) Quantity and distribution of employment? No impacts identified.
- (e) Distribution and density of population and housing? No impacts identified.
- (f) Demands for government services? No impacts identified.
- (g) Industrial and commercial activity? No impacts identified.
- (h) Utilities? No impacts identified.
- (i) Transportation? No impacts identified.
- (j) Safety? No impacts identified.
- (k) Other appropriate social and economic circumstances? No impacts identified.

2. *Secondary and cumulative impacts on the physical environment and human population:*

Secondary Impacts No secondary impacts have been identified.

Cumulative Impacts No cumulative impacts have been identified.

3. *Describe any mitigation/stipulation measures:* The proposed project is to leave water instream to mitigate anticipated surface water depletions caused by the pumping of the Glacier Point public water supply wells.

4. *Description and analysis of reasonable alternatives to the proposed action, including the no action alternative, if an alternative is reasonably available and prudent to consider:* No reasonable alternatives have been identified. No human/environmental impacts are recognized as a result of the proposal to retire 27.57 acres of historic irrigation. Water is to be left instream in order to mitigate anticipated surface water depletions caused by the pumping of the Glacier Point public water supply wells. The no action alternative would result in the denial of the Beneficial Water Use Permit

application for the Glacier Point public water supply wells and the Applicant's non compliance with the Montana Water Use Act.

PART III. Conclusion

1. Preferred Alternative: As proposed. No significant impacts exist that would require an alternative action.

2 Comments and Responses: None at this time.

3. Finding:

Yes___ No X Based on the significance criteria evaluated in this EA, is an EIS required?

If an EIS is not required, explain why the EA is the appropriate level of analysis for this proposed action: An EA is the appropriate level of analysis for this action. There are no significant impacts identified as defined in ARM 36.254, therefore an EIS is not required.

Name of person(s) responsible for preparation of EA:

Name: Jennifer Daly

Title: Water Resource Specialist

Date: October 11, 2013